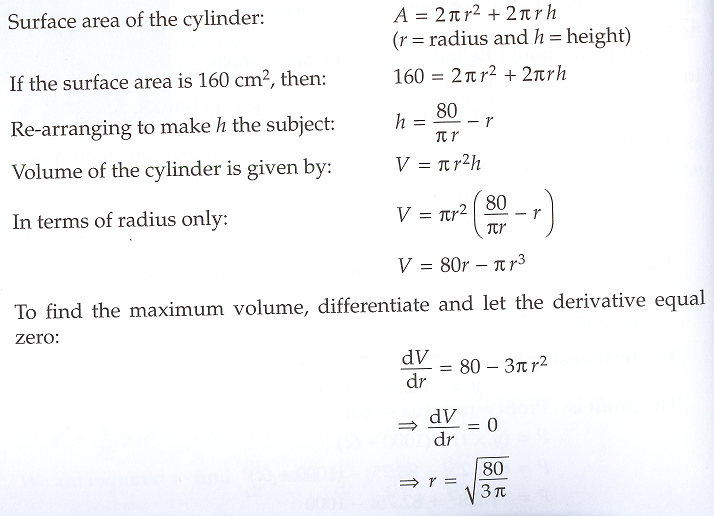
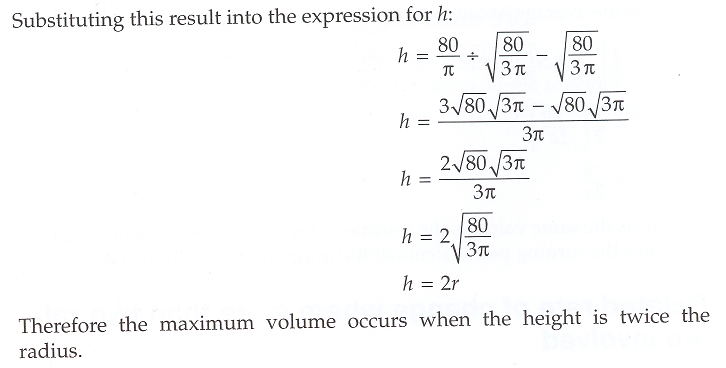
**A Proof:** Proof questions are where you are given a result and asked to demonstrate that the result is true.

**Example 1**

A cylinder has a surface area of 160 cm2. Show that the maximum volume will occur when the height is twice the length of the radius.





**Example 2**

If the function has two distinct roots, show that the turning point has the -value at the midpoint between these two roots.

